

# Press Release

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## December edition of the Crystallography Times newsletter is now online

*Crystallography Times from Rigaku Oxford Diffraction, concentrating on single crystal X-ray diffraction, is available from the company's website.*

**December 21, 2017 – The Woodlands, Texas.** [Rigaku Corporation](#) has published its latest edition of [Crystallography Times](#), which is available to view on the company's global website.

Crystallography Times is a monthly electronic newsletter presented by [Rigaku Oxford Diffraction](#) that concentrates on single crystal X-ray diffraction, and serves the X-ray analysis community by presenting the latest news and crystallographic papers.

“Crystallography in the News” is a comprehensive section of the newsletter that aggregates the latest developments in small molecule and protein X-ray diffraction from around the world, and showcases the newest research findings and developments. Featured stories include articles about the successful determination of the detailed structure of a light-sensitive membrane protein employed in optogenetics to control nerve cells with light, and a National Institutes of Health ([NIH](#))-funded initiative to uncover how T-cells—the “killer cells” that defend the body from microbes—are alerted to hazardous invaders in the body.

The Product Spotlight in the current issue features the [Rigaku HyPix-6000HE Hybrid Photon Counting \(HPC\) detector](#). In addition to the direct X-ray photon counting, single pixel point spread function and extremely low noise offered by HPC's, the HyPix-6000HE features 100 micron pixel size enabling better resolution of reflections for long unit cells and improved reflection profile analysis. The HyPix-6000HE has a high frame rate of 100 Hz, as well as a unique Zero Dead Time mode providing the ultimate in error-free shutterless data collection.



**Rigaku HyPix-6000HE Hybrid Photon Counting Detector**

Each month, the “Lab in the Spotlight” section highlights a different laboratory from the community of X-ray diffraction facilities around the world. In this month’s edition, Rigaku’s own three main application laboratories - in Tokyo, Japan; Wroclaw, Poland and The Woodlands, USA – are featured. Samples from all over the world are analyzed at one of the three sites by the Rigaku team of top-level application scientists.

The newsletter also offers a link to Rigaku Oxford Diffraction’s [user forum](#), where readers can find discussions about general crystallography issues including software, and other topics related to single-crystal X-ray diffraction. Featured videos, new products, book reviews and user surveys are also regular features of the newsletter.

Readers can subscribe to the newsletter or view the current issue online at <https://www.rigaku.com/subscribe>

### **About Rigaku**

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on general-purpose analytical instrumentation and the life sciences. With hundreds of major innovations to their credit, Rigaku companies are world leaders in X-ray spectrometry, diffraction, and optics, as well as small molecule and protein crystallography and semiconductor metrology. Today, Rigaku employs over 1,100 people in the manufacturing and support of its analytical equipment, which is used in more than 70 countries around the world supporting research, development, and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial communities.

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